

ROMAN, Tiberiu, conf.

Enlarged session of the Organization of the Mathematical
Science Society. Gaz mat fiz 69 no.11:436 N '64.

I. Institute of Petroleum, Gas, and Geology, Bucharest.

ROMAN LIBRARY

3

Roman Tiberiu. Le système des générateurs des groupes abstraits, correspondantes aux 32 classes cristallographiques. Rev. Univ "C. I. Parhon" Politehn. Bucureşti. Ser. Sti. Nat. 4 (1955), no. 6-7, 9-21. (Romanian, Russian and French summaries)
Geometrische Diskussion der 32 kristallgraphischen Klassen mit Angabe ihrer sämtlichen Untergruppen. Ferner wird für jede Klasse ein System von erzeugenden Operationen angegeben. In einer Tabelle wird die Ok-

Gruppe
Math.

taedergruppe O_h mit ihren sämtlichen Untergruppen dargestellt. Die diesbezügliche Bemerkung des Verf., dass die entsprechende Darstellung des Ref. [Die Bewegungsgruppen der Kristallographie Birkhäuser, Basel, 1947, S. 72; MR 8.562] unvollständig sei, beruht auf einer

A. /

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445210013-0

U
Verein: Die Anzahl der P.M. ist nicht genug um eine bessere Uebersicht zu gewinnen.
J. J. Burchardt (Zürich).

Spm

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445210013-0"

ROMAN, V., dr.; GOLDSTEIN, P., ing.; SOLOMON, I., ing.; IORDANESCU,
Eugenia, ing.

Contributions to the study of dyeing immature cotton fibers.
Ind text Rum 15 no.12:673-676 D '64.

1. Institute for Textile Research, Bucharest.

ROMAN, V.

Despre fizica moderna si perspectivele utilizarii energiei atomice;
victoria materialismului dialectic in fizica moderna. Editura Tehnica, 1954.
133 p. (Colectia Societatii pentru Raspandirea Stiintei si Culturii, 86-88)
(Modern physics and prospects for utilization of atomic energy; the victory of
dialectical materialism in modern physics. illus., notes)

So. East European Accessions List Vol. 5, No. 9 September, 1956

ROMAN, V.; KUN, A.

Assistance of the USSR in achievements of the Rumanian textile industry and our prospects for the technical development. II. p. 367.

INDUSTRIA TEXTILA. (Asociatia Stiintifica a Inginerilor si Tehnicienilor din Romania si Ministerului Industriei Usoare) Bucuresti. Vol. 6, no. 11.

Nov. 1955.

So. East European Accessions List Vol. 5, No. 9 September, 1956

ROMAN, V.

Assistance of the USSR in achievements of the Rumanian textile industry and our prospects for technical development, III p. 422

INDUSTRIA TEXTILA, Bucuresti, Vol 6, No. 12, Dec., 1955

SO: East European Accessions List (EEAL) Library of Congress, Vol 5, No. 7, July, 1956

ROMAN, T.

"Shrinkage of textiles during washing", p. 276, (INDUSTRIAL TEXTILE,
Vol. 5, No. 3, Aug. 1955, Bucharest, Romania)

SP: Monthly List of East European Acquisitions, (EMI, LC, Vol. 4,
No. 4, Aug. 1955, Uncl.)

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001445210013-0

Review, Mr. [unclear]
[unclear] was the most important factor for development of the apprehension
of [unclear], an important factor for development of the apprehension
of [unclear].

Source: [unclear]

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CIA-RDP86-00513R001445210013-0"

RUMANIA/Chemical Technology. Chemical Products
and Their Applications. Dyeing and Ch-
mical Treatment of Textile Materials.

H

Abs Jour : Ref Zhur-Khimika, No 6, 1959, 21895

Author : Roman, V., Vegh, St., Musca, N., Kovacs, A.,
Capota, Ch.

Inst :

Title : Continuous Bleaching of Cotton Fabrics.

Orig Pub : II-a Consf. tehn.-staint. a ind. uscare.
Textile [Bucuresti], ASIT, 1957, 268-277

Abstract : A continuous method for bleaching cotton
fabrics was developed by the authors. The
process consists of the following opera-
tions: impregnating of the material with
an alkaline solution, steaming, washing

Card : 1/3

RUMANII/Chemical Technology. Chemical Products
and Their Applications. Dyeing and Ch-
mical Treatment of Textile Materials.

H

Abs Jour : Ref Zhur-Khimiya, No 6, 1959, 21895

with hot and cold water, treatment with
a NaOCl solution (for 20-30 minutes at
pH 10 and temperature 20°), washing with
cold water, treatment with an alkali so-
lution, washing with hot and cold water,
NaOCl bleaching, washing with cold water,
bleaching with H₂SO₄, and washing with cold
water. Long use in industry of a bleaching
setup which works by this method showed good
results according to indicators of the qua-
lity of bleaching of fabrics, mechanical sta-
bility, average degree of polymerization of
cellulose, and its hydrophylic nature. Advan-

Card : 2/3

H-161

ROMAN, V., dr.

Being well by the coacervation method. Ind text Rum 12 no.9:
375-376 S'61.

VLASCU, V. and CANTUA, G.

"Recovery of solutions after mercerization and their utilization in bleaching.", p. 19,
(TEXTILE, Vol. 2, no. 6, June 1951, Bucuresti)

SO: Monthly List of East European Accession, Vol. 2, no. 8, Library of Congress,
August 1953, Uncl.

IVAN, I.M.; SOLOMON, I.; TELNICEANU, A.; GHELASE, Maria; ROMAN, V.

Dynamics of antipoliomyelic sero-neutralizing antibodies in children vaccinated with attenuated live virus vaccine. Stud. cercet. inframicrobiol. **12** no.4:467-473 '61.

1. Comunicare prezentala la Institutul de inframicrobiologie al Academiei R.P.R. [REDACTED] (POLIOMYELITIS immunology)

ROMAN, V. A.

191T106

USSR/Medicine - Virus Diseases

Mar 51

"Primary Myelitis," V. A. Roman

"Nevropatol i Psikhiat" Vol XX, No 3, p 89

Short summary on author's lecture at 1949 Session
of Rostov Soc of Neuropathologists and Psychia-
trists. Histological investigation showed only
gliose reaction in primary myelitis, which confirms
the virus etiology. Therapy consists of penicillin
in large doses, especially during the acute period.
The use of "RD" is recommended.

191T106

SHOSTAKOVSKIY, M.F.; KOMAROVA, L.I.; PUKHNAREVICH, V.B.; KOMAROV, N.V.;
ROMAN, V.K.

3,5-Dinitrobenzoylhydrazones of organosilicon carbonyl compounds.
Izv.AN SSSR.Ser.khim. no.2:382-384 F '64. (MIRA 17:3)

1. Irkutskiy institut organicheskoy khimii AN SSSR.

RUMANIA

FLESCHIN, H., Dr, Col, MARINESCU, A., Dr, Lt-Col, ROMAN, V., Dr, Maj, and VASILE, Al., Dr, Cpt [affiliation not given]

"Considerations on the Current Treatment of Recurrent Scapulo-Humeral Dislocations in the Military Environment."

Bucharest, Revista Sanitara Militara, Vol 62, No 2, Mar-Apr 66,
pp 221-224.

Abstract: Observations based on 15 cases of recurring dislocations treated surgically as follows: 9 by the Von Wahl operation (one recurred); 3 by the Wilmoth-Lenormant operation (one recurred); 2 by the Stavrache modification of the Bankart operation (one recurred), and one by the original Bankart operation (good results). Special emphasis is devoted to a description of the Bankart procedure, which the authors find preferable to the other methods and plan to use more frequently in the future.

Includes 3 references, of which one German and 2 Rumanian.

TARAKHOVSKIY, M.L.; FEL'MAN, I.M.; ROMAN, V.I.

Pharmacotherapy of hyperkinesis with cholinolytic derivatives of
quaternary ammonium compounds; Experimental and clinical observations.
Zhur.nevr.i psikh 60 no.8:957-964 '60. (MIRA 13:9)

1. Otdel farmakologii (zaveduyushchiy - prof. S.V.Anichkov) Instituta
eksperimental'noy meditsiny, kafedra farmakologii (zaveduyushchiy -
prof. S.P. Zakrividoroga) i klinika nervnykh nervnykh bolezney
(zaveduyushchiy - prof. S.N.Savenko) Chernovitskogo meditsinskogo
instituta.

(MOVEMENT DISORDERS)

(AUTONOMIC DRUGS)

S/186/62/004/003/007/022
E071/E433

AUTHORS: Nikolayev, A.V., Torgov, V.G., Roman, V.K.,
Mikhaylov, V.A., Kotlyarevskiy, I.L.

TITLE: The synthesis and investigation of compounds of
uranyl salts with pyridine oxide derivatives

PERIODICAL: Radiokhimiya, v.4, no.3, 1962, 296-304

TEXT: The authors studied the interaction of pyridine oxide
derivatives (pyridine-N-oxide); γ -nitropyridine oxide; α -picoline-N-oxide;
 γ ,6-dlutidine-N-oxide; 2,3,6-trimethylpyridine-N-oxide;
2,3,5,6-tetramethylpyridine-N-oxide and
2-methyl-6-phenylpyridine-N-oxide) with uranyl salts (nitrate,
sulphate and chloride). The synthesis of compounds of uranyl
salts with pyridine oxides was done by mixing 10 to 15% alcoholic
solutions of a pyridine oxide with alcoholic solutions of uranyl
salts in a ratio of uranyl salt : pyridine oxide = 1:3 (in the
case of γ -nitropyridine oxide an aqueous solution was used).
Altogether 11 complex compounds of uranyl salts with pyridine
oxides were obtained and some of their properties investigated.
The composition of the compounds was: $UO_2(NO_3)_2 \cdot 2PyOx$;

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The synthesis and ...

$\text{UO}_2(\text{NO}_3)_2 \cdot 5\text{PyOx}$ (synthesized in aqueous medium); $\text{UO}_2\text{SO}_4 \cdot 2\text{PyOx}$; $\text{UO}_2\text{Cl}_2 \cdot 2\text{PyOx}$. Differential thermal analysis of the compounds indicated that the first effect is an endothermic one, it is not associated with any visual changes in the compounds (with the exception of $\text{UO}_2(\text{NO}_3)_2 \cdot 2\text{C}_6\text{H}_7\text{NO}$ which melts at 160°C and $\text{UO}_2\text{SO}_4 \cdot 2\text{C}_5\text{H}_5\text{NO}$ which changes colour at 200°C) and is assumed as being due to the splitting of one or two molecules of pyridine oxide which can be accompanied by melting. The temperature of this effect can be taken as a measure of the strength of the complex. A steady decrease of this temperature in the series: $\text{UO}_2(\text{NO}_3)_2 \cdot 2\text{C}_5\text{H}_5\text{NO}$ (220°C), $\text{UO}_2(\text{NO}_3)_2 \cdot 2\text{C}_6\text{H}_7\text{NO}$ (160°C), $\text{UO}_2(\text{NO}_3)_2 \cdot 2\text{C}_7\text{H}_9\text{NO}$ (120°C) indicate that the introduction of the methyl group in the α -position in respect of nitrogen leads to a decrease in the strength of the bond $\text{UO}_2^{2+} \dots \ddot{\text{O}} - \text{N}^+$

The compounds are well soluble in water and little soluble in organic solvents. Complexes with α -picoline oxide are somewhat better soluble in organic solvents. This is ascribed to lack of symmetry in the α -picoline molecule. It is thought that this

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The synthesis and ...

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E071/E433

non-symmetrical hydrophobization of α -picoline molecule can be enhanced by the introduction of one or two long alkyl chains and thus produce complexes well soluble in organic solvents and insoluble in water. A decrease in the polarity of the N \rightarrow O bond through the introduction of electrophilic substituents, e.g. halogens may have a similar effect. In this way compounds suitable as extracting agents could be obtained. This problem is being investigated. There are 4 figures and 7 tables.

SUBMITTED: April 11, 1961.

Card 3/3

Aganin, Ya.

"The Parasitic Fauna of Commercial Fish of the Duna (Danube) River and Its Practical Significance." Cand Biol Sci, Leningrad State U, Leningrad, 1951. (BZhBiol No 1, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (13). SO: Sum. 900, 20 Jul 55

ROMAN, YE.

Parasites - Fish

Parasitic fauna of sunfish Lepomis gibbosus (L.), acclimatized in the Danube. Dokl. AN SSSR 89, No. 4, 1953.

SO: Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

THE UTILIZATION OF INVESTMENT FUNDS.

p. 6 (SZECHENYI) BUDAPEST, HUNGARY. VOL. 12 NO 6 APR 1957

O: MONTHLY INDEX OF EAST EUROPEAN ACQUISITIONS (AEEI) VOL. 6 NO 11 NOVEMBER 1957

ROMAN, Zoltan, a kozgazdasagi tudomanyok kandidatusa (Budapest)

Scientific conference on statistics in Budapest. Magy tud 68 no.10:
624-627 0 '61.

1. Osztalyvezeto, Kozponti Statisztikai Hivatal, Budapest.

ROMAN, Zoltan

"English and American productivity and comparative costs in international trade" by Robert M. Stern (from Oxford Economic Papers, no.3, 1962). Reviewed by Zoltan Roman. Stat Szemle 41 no.5:539-540 My '63.

ROMAN, Zoltan

Testing the up-to-dateness of industrial products. Musz elet
19 no.18:7 27 Ag '64

ROMAN, Zoltan

Direct measurement of labor productivity in industries, Stat
szemle 37 no.3:274-298 Mr '59.

NYITRAI, Ferencne; ROMAN, Zoltan

Some experiences of a Polish study tour and scientific
conference. Stat szemle 38 no.4:394-401 Ap '60.

ROMAN, Zoltan

"Scientific studies in statistics", edited by V.S.Nerchinov.
Vol.3: "Questions relating to the balance sheets of national
economy and labor productivity." Reveiwed by Zoltan Roman.
Stat szemle 37 no.4:457-458 Ap '59.

ROMAN, Zoltan

"Statistical groupings in the study of the Soviet Union's
industrial economy" by N.G.Grachev. Reviewed by Zoltan Roman.
Stat szemle 37 no.4:461-462 Ap '59.

ROMAN, Zoltan

"Labor productivity in theory and practice" by Gerhard Richter.
Reviewed by Zoltan Roman. Stat szemle 37 no.4:463-464 Ap '59.

LUKACS, Otto; ROMAN, Zoltan

Re-examination of the industry's net production index. Stat
szemle 37 no.5:475-496 My '59.

1. "Statisztikai Szemle" szerkeszto bizottsagi tagja (for Lukacs).

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001445210013-0

ROMAN, Zoltan

On the world level of technology. Musz elet 17 no.18:6 30 Ag '62.

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001445210013-0"

REMAN, Z.

The concept of economy and tasks for its practice in industry. p. 2.
TOBB TERHELES. Budapest. Vol. 10, No. 2, Feb. 1956

SOURCE: East European Accessions List (EEAL) Library of Congress
Vol. 5, No. 6, June 1956

ROMAN, Z.

Some timely problems of planning in enterprises. p. 12.

TOBBTERMELÉS, Vol. 9, No. 7, July 1955

(Uzemri Tervgazdasagi es Szervezesi Tudomanyos Egyesulet) Budapest

SOURCE: EAST EUROPEAN ACCESSIONS LIST Vol. 5, No. 1 September, 1956

Roman, Z., (Ms.)

15. Independent accounting system for brigades in civil engineering -- Brigadek önálló elszámolási rendszere a melyépítőiparban -- by Mrs. Z. Roman (Industrial Organization -- Tobbtermelés -- Vol. V, No. 1-2, pp. 51-57, Jan.-Feb. 1951, 1 fig.)

One of the most important instruments of Socialist production is the independent accounting of individual units within enterprises. This is also valid in the field of civil engineering, however, in divergent forms suited to special requirements. Separate accounting, in fact, separate bookkeeping must be introduced at the scattered work sites, as this will facilitate control as well as payment of equitable premiums and the evaluation of work competition. For further breaking down costs, independent accounting for each brigade was tried out; the experiment led to favourable results. The theoretical and practical details of work site accounting are dealt with.

ROMAN, Zoltan, dr.

"Production structure of the USSR and foreign countries on the basis of their input-output balance" by L. Berri, Ju. Sverkov [Suyrkov, Yu.]. Reviewed by Zoltan Roman. Stat szemle 41 no.7:771-773 Jl '63.

1. Kozponti Statisztikai Hivatal osztalyvezetője.

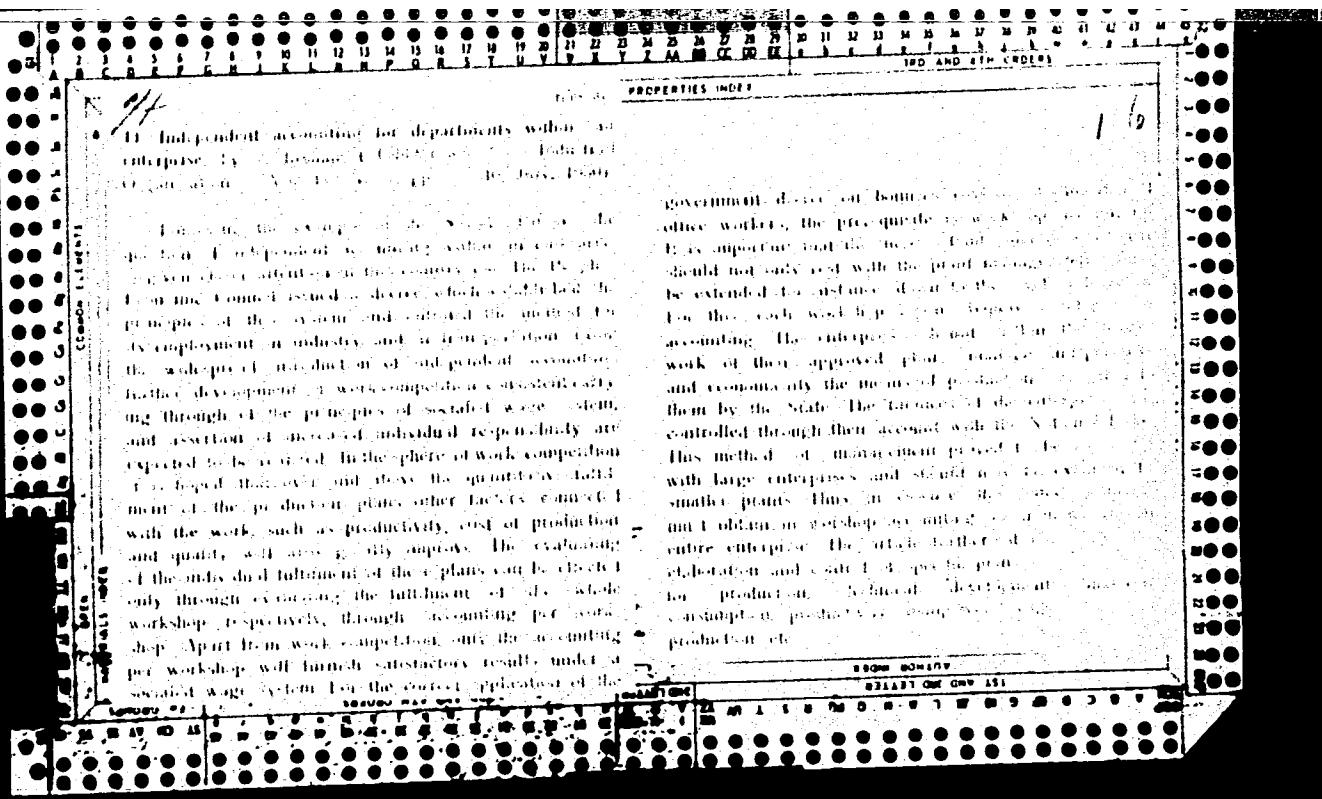
ROMAN, Zoltan, Dr.

An international conference on input-output methods. Stat szemle
40 no.1:80-82 Ja '62.

SOMAN, Z.

"The operative chronological planning of production in the machine industry." p. 11.
(TÖLTÉKLÉMÉS, Vol. 6, no. 6, June 1952. Budapest.)

SO: Monthly List of East European Acquisitions, Vol. 2, #8, Library of Congress
August, 1953, Uncl.

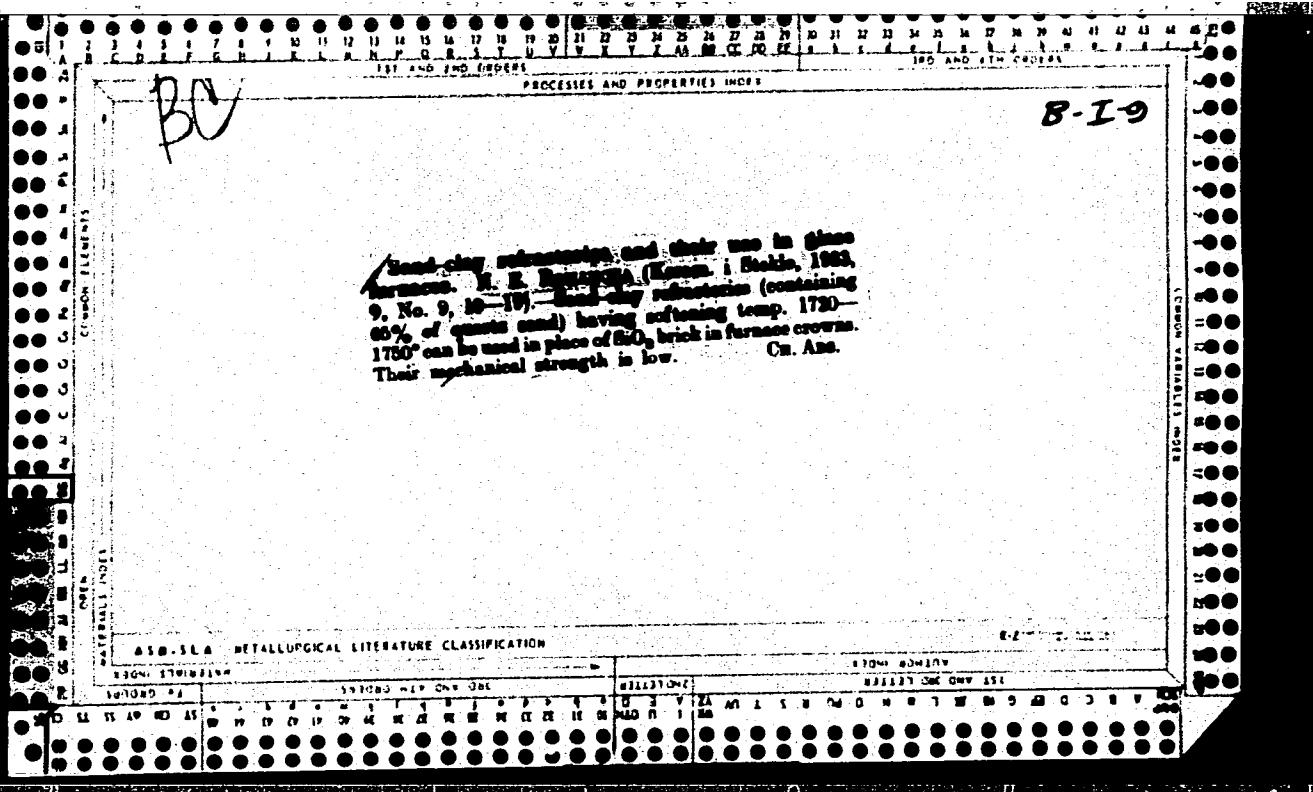


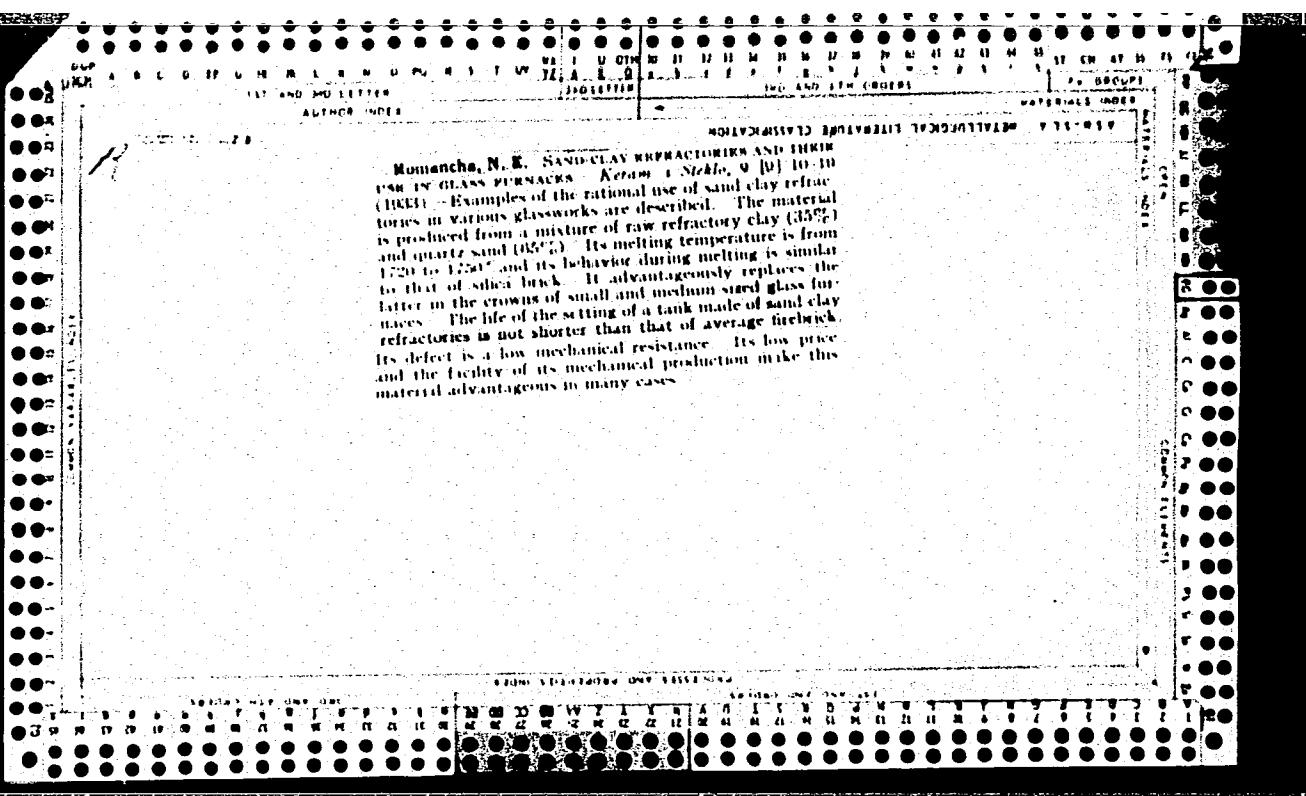
BORKOWSKI, Tomasz; ROMAN-TUSZKIEWICZ, Alfred

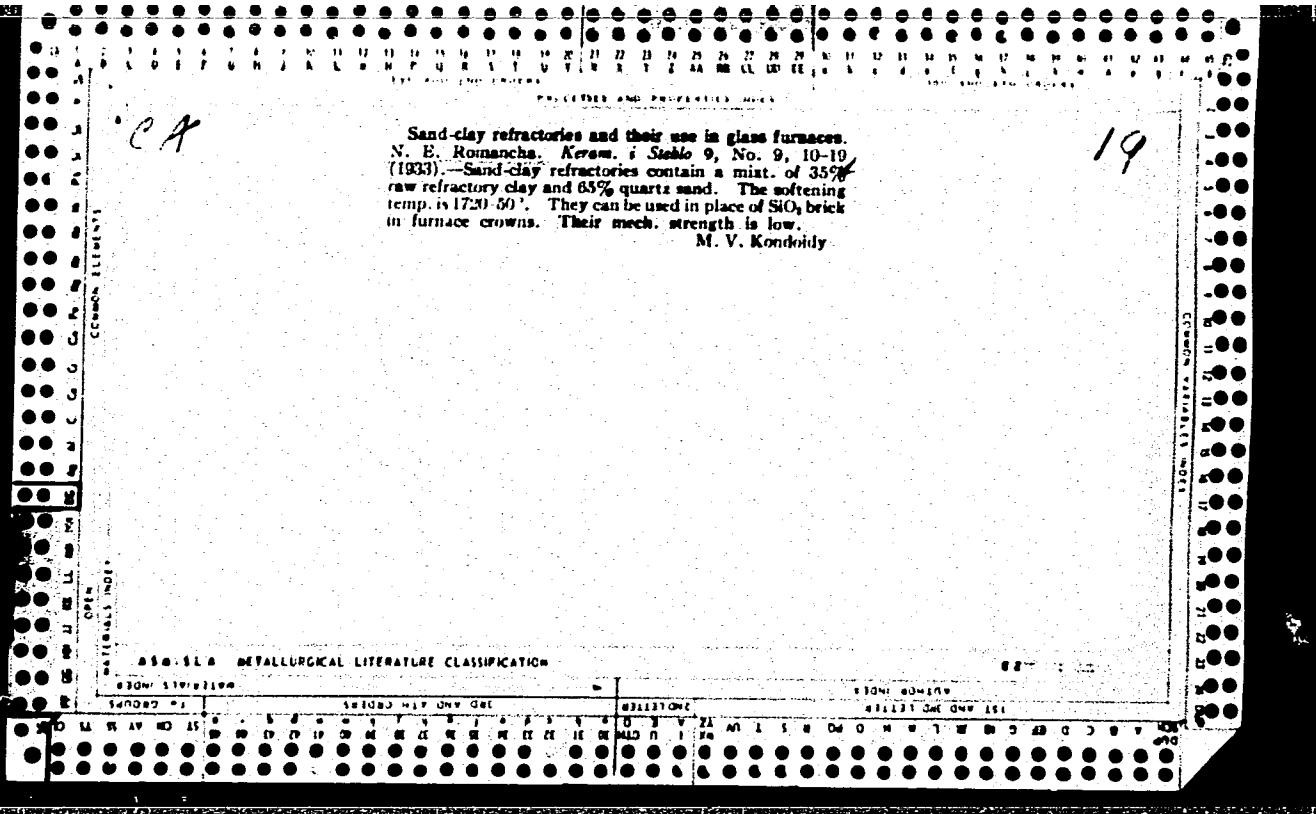
Chromatographic modification of galactose liver function test.
Ann. Univ. Lublin; sec. D 9:131-158 1954.

1. Z Zakladu Chemii Fizjologicznej Akademii Medycznej w Lublinie.
Kierowniki: prof. dr. Janina Opieńska-Blauth. Z II Kliniki Chorob
Wewnętrznych Akademii Medycznej w Lublinie. Kierownik: prof. dr.
Alfred R. Tuszkiewicz.

(LIVER FUNCTION TESTS,
galactose tolerance, chromatographic modification.)







ROMANCHENKO, A.A., nauchnyy sotrudnik

Leaf rollers as pests of fruit plantations in southern Odessa Province, Zashch. rast. ot vred. i bol. 6 no.10:57 O '61.

(MIRA 16:6)

(Odessa Province—Fruit—Diseases and pests)

(Odessa Province—Leaf rollers—Extermination)

ROMANCHENKO, A.F. (Kiyev)

Theorem on the variation of the kinetic moment of a
deformed mass-point system of variable composition.
Prikl. mekh. 1 no.12:122-127 '65.

(MIRA 19:1)

I. Institut mekhaniki AN UkrSSR. Submitted Feb. 12, 1965.

ROMANCHENKO, A.S.; D'YACHKOVA, L.A.

New method for joining copper tubing. Gidroliz. i lesokhim.prom. 10
no.5:26-27 '57. (MIEA 10:8)

1.Yangi-Yul'skiy gidroliznyy zavod.
(Pipe, Copper)

ROMANCHENKO, G., inzhener.

~~Over-all mechanization in stores at the Moscow Basin mines. Mast.
ugl. 6 no.7:6-8 Jl '57.~~ (MIRA 10:9)
(Moscow Basin--Materials handling)

ROMANCHENKO, Aleksandr Vladimirovich

[Problems in the economics of stockbreeding] Voprosy ekonomiki
zhivotnovodstva. Moskva, Sel'khozgiz, 1957. 206 p. (MIRA 11:4)
(Stock and stockbreeding)

Re: Agriculture, A Review of World (revise).

Cultivation of grain is the basis of agriculture. (Moscow, Ukraine, 1984).
(Vegetation changes in the USSR: its resource base and ecological niches. In: Soil science, 1984, No. 1, p. 1-104.)

Capital: Moscow.

1. Grain - basic food crop of the world.

ROMANCHENKO, Aleksandr Vladimirovich

"The Development of Grain Farming in the USSR";

dissertation for the degree of Doctor of Economic Sciences
Awarded by the Timiryazev Agricultural Academy, 1962)

(Izvestiya Timiryazevskoy Sel'skokhozyaystvennoy Akademii, Moscow, No. 2,
1963, pp. 232-236)

BADIR'YAN, G.G., prof.; VASIL'YEV, N.V., prof.; KUTOV, G.G., prof.;
RUDAKOVA, Ye.A., prof.; BRAGINSKIY, B.I., doktor ekon.nauk;
GUMEROV, M.N., dots.; ROMANCHENKO, A.V., doktor ekon. nauk;
ABRAMOV, V.A., dots.; ALTAYSKIY, I.P., kand. ekon. nauk;
GAVRILOV, V.I., dots.; RAFIKOV, M.M., kand.ekon. nauk;
VINOKUR, R.D., dots.; RUSAKOV, G.K., dots.; LAVRENT'YEV,
V.N., dots.; GORELIK, L.Ya., red.; PONOMAREVA, A.A., tekhn.
red.

[Economics, organization and planning of agricultural production] Ekonomika, organizatsiya i planirovanie sel'skokhoziasistvennogo proizvodstva. Moskva, Ekonomizdat, 1963. 607 p.

(MIRA 16:11)

(Agriculture--Economic aspects)

ROMANCHENKO, Aleksandr Vladimirovich, kandidat ekonomicheskikh nauk; BEMYUMOV, O.M., redaktor; GUBIN, M.I., tekhnicheskiy redaktor.

[Mechanization of Soviet agriculture and its economic significance]
Mekhanizatsiya sel'skogo khoziaistva SSSR i ee ekonomicheskoe znachenie. Moskva, Izd-vo "Znanie," 1957. 38 p. (Vsesoiuznoe obshchestvo po rasprostraneniiu politicheskikh i nauchnykh znanii. Ser.5, no.6)
(MLRA 10:4)

(Farm mechanization)

NAYDENOV, V.V., inzh.; SIVER, L.Ya., inzh.; ZAVRAZHMYY, I.M., inzh.;
BORYAK, A.T., inzh.; ROMANCHENKO, F.V., inzh.

Semidry pressing of kaolin bricks. suggested by V.V.
Naidenov and others. Rats.i izobr.predl.v stroi. no.11:
79-82 '59. (MIRA 13:3)

1. Po materialam plitochnogo zavoda, stantsiya Losevo,
Khar'kovskogo sovnarkhoza.
(Kaolin)

ROMANCHENKO, G., inzh.

Motor-driven chiselshell for timbering. Mast. ugl. 7 no. 2:22-23 F
'58. (MIRA 11r3)

(Material handling) (Mine timbering)

BONCHENKO, V.N., inzh.

Reinforced concrete mine ties designed by the Moscow Region
Scientific Research and Design and Planning Coal Institute.
Ugol' 40 no.4:76 Ap '65. (MIFA 18:5)

1. Podmoskovnyy nauchno-issledovatel'skiy i proyektirovaniy
konstruktorskiy ugol'nyy institut.

ROMANCHENKO, G.N., inzh.

Readers' response to the article by S.Kh.Khusainov "Economizing on lumber in Kuznetsk Basin mines is an important potential for lowering the cost of coal"; "Ugol'", 1962, No.7. Ugol' 39 no.2: 70-72 F '64. (MIRA 17:3)

1. Podmoskovnyy nauchno-issledovatel'skiy i proyektno-konstruktorskiy ugol'nyy institut.

ROMANCHENKO, G. (g. Pushkin, Leningradskoy oblasti)

Problems of the profitability of collective farm production.
Vop. ekon. no.12:55-60 D '59. (MIRA 12:12)
(Collective farms)

ROMANCHENKO, V., inzhener; ROMANCHENKO, G., inzhener.

Over-all lumber yard work mechanization. Mast. ugl. 4 no.11:
21-23 N '55.
(Lumberyards) (Moscow Basin--Material handling)
(MLRA 9:2)

1. NOVAINCHENKO, G.

2. USSR (600)

4. Economics

7. The subject of the economics of socialist agriculture, Vop.ekon. no. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

ROMANCHENKO, G.A.; CHARNYY, A.M. (Zhdanov)

A case of intratracheal goiter. Probl.endok. i gorm. 5
no.3:88-90 My-Je '59. (MIRA 12:9)

1. Iz otolaringologicheskogo otdeleniya (zav. G.A.Romanchenko)
i patologoanatomiceskogo otdeleniya (zav. A.M.Charnyy) mediko-
sanitarnoy chasti ordena Lenina zavoda imeni Il'icha (glavnnyy
vrach M.L.Samoylovich).

(GOITER, case reports
intratracheal (Rus))

ROMANCHENKO, G.K.

Correcting the defects in steel castings. Proizv.opyt v
tiash.mash. no.3:37-41 '55. (MLRA 10:2)

(Steel castings)

ROMANCHENKO, G.N.

Industrial development of the Krivoy Rog Basin (before 1917).
Trudy Inst.ist.est.i tekhn. 33 '60. (MIRA 13:8)
(Krivoy Rog Basin--Mines and mineral resources)

ROMANCHENKO, G. N., Cand Tech Sci -- (diss) "Some historical questions of the technical development of the Krivorozhskiy iron ore basin in pre-revolutionary times." Moscow, 1960. 19 pp; (Academy of Sciences USSR, Inst of the History of Natural Science and Technology); 150 copies; price not given; (KL, 17-60, 159)

ROMANCHENKO, G.N., inzh.

Over-all mechanization of operations in the lumber yards of the
Tulaugol' Combine mines. Ugol' 35 no. 12:4-6 D '60. (MIRA 14:1)

1. Podmoskovnyy nauchno-issledovatel'skiy ugol'nyy institut.
(Tula Basin--Coal mines and mining--Equipment and supplies)
(Lumber yards)

ROMANCHENKO, G. N.

Aleksandr Nikolaevich Pol'. Trudy Inst.ist.est.i tekhn. 33:201-210
'60. (MIRA 13:8)
(Pol', Aleksandr Nikolaevich, 1832-1890)

ROMANCHENKO, G.N.

Mechanizing loading and unloading operations in mine lumber yards
of the Moscow Coal Basin. Ugol' 33 no.4:35-36 Ap '58. (MIRA 11:4)

1. Proyektная контора комбината Тулагол'.
(Moscow Basin--Coal mines and mining--Equipment and supplies)
(Mine timbering)

ROMANCHENKO, V.N., inzhener; ROMANCHENKO, G.N., inzhener.

For efficient mechanization of log dumps. Mekh. trud. rab. 10 no.7:
14-16 Jl '56. (MIRA 9:9)
(Lumbering--Machinery)

ROMANCHENKO, G. N.

Cand Tech Sci - (diss) "Several problems of the history of technical development of the Krivoroshkiy Iron-Ore Basin in pre-revolutionary time." Moscow, 1961. 21 pp; (Inst of Mining Affairs imeni A. A. Skochinskiy); 200 copies; price not given; (KL, 10-61 sup, 218)

ROMANCHENKO, Grigoriy Nikitovich; ROMANOVA, L.A., red.izd-va; SMOLDYREV,
A.Ye., otv.red.; ISLENT'YEVA, tekhn.red.; PROZOROVSKAYA, tekhn.red.

[Arrangement and operation of mine lumber yards] Ustroistvo i
ekspluatatsiya rudnichnykh lesnykh skladov; spravochnoe ruko-
vodstvo. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu,
1959. 119 p.

(MIRA 13:4)

(Lumber yards) (Mine timbering)

Romanchenko, G.R.

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BABAR'YAN, G.G.; TIUTIN, V.A.; CHEREMUSHKIN, S.D.; ZUZIK, D.T.; KHODASEVICH, B.G.; PRAYER, S.V.; GUVALOV, Ye.I.; KAZANSKIY, A.M.; KASSIROV, L.N.; KARAYEV, S.A.; ARAKOV, V.A.; VASIL'YEV, N.V.; BUGATEV, N.F.; SAPIL'NIKOV, N.G.; KASTORIN, A.A.; RUDNIKOV, V.N.; YAKOVLEV, V.A.; PENERSKIN, V.I.; ISAYEV, A.P.; KUZHNEVICH, N.N.; IL'IN, S.A.; PRONIN, V.A.; LUK'YANOV, A.D.; SHAKHOV, Ya.K.; IL'ICHEV, A.K., kand. sel'-khoz. nauk; KOGAN, A.Ya.; TSYRKOV, M.Yu.; BABIK, L.T.; GORBUNOV, I.I.; KOVALEV, A.M.; ROMAHCENKO, G.R.; AKRODSKAYA, M.I., red.; IVANOVA, A.N., red.; GUREVICH, N.M., tekhn. red.; TRUKHINA, O.N., tekhn. red.

[Economics of agriculture] Ekonomika sotsialisticheskogo sel'skogo khoziaistva; kurs lektsii. Moskva, Sel'khozizdat, 1962.
710 p. (MIRA 15:10)

(Agriculture—Economic aspects)

SEREGIN, N.G.; ROMANCHENKO, I.F.

Veterinary workers of Tula Province in the campaign to increase
livestock production. Veterinariia 35 no.5:23-28 My '58.

(MIRA 12:1)

1. Zamestitel' predsedatelya Ispolkoma Tul'skogo oblastnogo Soveta
deputatov trudyashchikhsya (for Seregin). 2. Nachal'nik veterinarnogo
otdela Oblesel'khozupravleniya (for Romanchenko).

(Tula Province--Veterinary medicine)

ROMANCHENKO, I.F.; OVSYANOV, N.I.; YEPIFANOV, G.F.; OVANESOVA, N.B.;
SHMULEVICH, I.S.

Throughout the Soviet Union. Veterinariia 35 no. 7:92-95 J1 '58.
(Veterinary medicine)

ROMANENKO, I.N., akademik, otvetstvennyy red.; VLASYUK, P.A., akademik, red.; ZEROV, D.K., akademik, red.; RODIONOV, S.P., red.; TYULENEV, N.A., red.; PSHENICHNYY, P.D., akademik, red.; DAVYDOV, G.M., kand. ekon. nauk, red.; KUGUKALO, I.A., kand. ekon. nauk, red.; BEREZIKOV, V.S., red.; FEDUN, A.D., red.; KOZAKEVICH, T.A., red. izd-va; SIVACHENKO, Ye. K., tekhn. red.

[Problems in the economy of Polesye; transactions of a conference]
Voprosy ekonomiki Poles'ia; trudy konferentsii. Kiev, Izd-vo Akad. nauk USSR. Vol. 4. 1958. 134 p. (MIRA 11:10)

1. Konferentsiya po voprosam razvitiya proizvoditel'nykh sil Poles'ya USSR. 1955.
2. Akademiya nauk USSR (for Vlasyuk, Zerov.).
3. Ukrainskaya Akademiya sel'skokhozyaystvennykh nauk (for Vlasyuk, Romanenko, Pshenichnyy).
4. Vsesoyuznaya Akademiya sel'skokhozyaystvennykh nauk im. V.I.Lenina (for Vlasyuk).
5. Chlen-korrespondent Vsesoyuznoy Akademii sel'skokhozyaystvennykh nauk im. V.I.Lenina (for Romanenko).
6. Chlen-korrespondent Akademii nauk USSR (for Rodionov, Tyulenev).
7. Zamestitel' nachal'nika ot dela svodnykh perspektivnykh planov Gosplana Soveta Ministrov USSR (for Berezikov).
8. Nachal'nik podot dela sel'skogo khozyaystva i zagotovok ot dela svodnykh perspektivnykh planov sel'skogo khozyaystva Gosplana Soveta Ministrov USSR (for Fedun).

(Polesye--Economic conditions)

Romanchenko, K.G.

✓ Coatings and mortars for lightweight Dinas. I. S. KAINARSKI,
I. A. GETMAN, AND K. G. ROMANCHENKO. *Ogneupory*, 20 [2]
51-56 (1955).—The mixtures should be prepared from 80 to 92%
Dinas grog and 10 to 8% low-sintering plastic clay. The grog
should be below 2 mm; large fractions of grains below 0.088
mm, should be avoided. Clay particles should be below 1 mm.
The grain size of coatings should be as follows: 1.5 mm, not over
5%, 1.5 to 1 mm, 10 to 18%, 1 to 0.088 mm, 50 to 50%, and <0.088
mm, not over 30%. SiO₂ should be not less than 88%, and
Al₂O₃ + TiO₂ not over 5%. Mortars should have the same com-
position but the following grain size: 4.5 to 1 mm, 0.7%, 1 to
0.5 mm, 10%, 0.5 to 0.088 mm, 47%, and <0.088 mm, 43%.

B.Z.K.

ROMANCHENKO, K.G.

✓ 2027. Production of silica bricks of improved abrasion resistance for use in coke-oven soles.—G. B. TAUBIN, K. G. ROMANCHENKO, and D. I. PANKRATOV (*Ogneupory*, 21, 54, 1956). In Russia, with Vyrychinskii quartzite, 10% of crushed silica brick and a bond with a CaO : FeO ratio between 1 : 1 and 2 : 1, and the following grading: coke-oven sole bricks of the following properties were produced: porosity, <16%; crushing strength, ≥ 600 kg/cm 2 (8,550 lb/in 2); drum abrasion resistance, <8%. Grading: 3-mm., <1%; <0.54 mm., 52-58% (<0.088 mm., 32-36%); moisture, 4.4-4.6%; FeO, 1.2-1.7%; sulphite lye (on dry basis), 0.6-0.8%. The bricks were maintained at top temperature in the kiln for 3-5 hr. longer than usual. (3 figs., 2 tables.)

Meth

AUTHORS: Margulis, O.M., Romanchenko, K.G., and Getman, I.A.
TITLE: Sheaths for immersion thermocouples. (Nakonechniki dlya
termopar pogruzheniya).

PERIODICAL: "Stal'" (Steel), No.8, 1957, pp.714-715 (USSR).

ABSTRACT: Methods of producing refractory thermocouple sheaths for immersion thermocouples resistant to thermal shock and able to withstand not only a large number of short immersions but also prolonged immersion, were investigated. T.K.Kazanskaya (laboratory assistant) participated in the investigation. It was established that the best method of manufacturing is by freezing a layer of a mixture of refractory powder with paraffin and oleic acid on to an immersed rod (at 50-70°C). It is stated that the appropriate compositions for manufacturing various refractory sheaths were established but no details given. As all refractory sheaths produced cracked on immersion, two types of protective coatings based on metallurgical magnesite and zirconia stabilised with lime were developed. The size distribution required for the above two materials are given. As a binder, an alcoholic sulphite lye was used. Tests carried out in a high frequency furnace at 1600-1700°C indicated that sheets from technical corundum coated with a

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11(6)

SOV 131-58-11-7-9

AUTHORS:

Kaznarskiy, I. I., Romanchenko, K. G., Pindrik, R. Ye.

TITLE:

The Problem of Placing Unfinished Dinas Bricks on the Buggies
of the Tunnel Kiln (K voprosu o sadke dinasovogo myrtsa na
vagonetki tunnel'noy pechi)

PUBLICATION:

Ogneupory, 1978, Nr. 11, pp. 521-526 (USSR)

ABSTRACT:

When unfinished bricks of a size of 22,6 . 11,2 . 6,4 cm and an average weight of 3,5 kg are piled up while still wet, tensions are created by pressure, bending and compression. Tests revealed that unfinished dinas bricks have a sufficiently high compression limit to support the weight of a pile of unfinished bricks of a height of 1,6 m, which is, however, not true of their bending strength (Table 1). The compression strength of a regular pressed unfinished dinas brick corresponds to the specific pressure on the bottom row of bricks of a pile (Table 2). In order to obtain greater strength, the bricks were pressed with a pressure of approximately 400 kg/sq.cm after a sulphite-alcohol wash and the intensifier VB were added (Table 3). The results obtained in the laboratory were tested under industrial conditions in the Test Plant (MKV) as

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The problem of placing Unfinished Dinas Bricks on the Buggies of the Tunnel Kiln

well as in the **Krasnogorovskiy** and **Zaporozhskiy** Plants for Refractory **Materials** (table 4). The results were tested in the Plant for Refractory **Materials** imeni Lenin as well as in the tsckh Khromomagnesitovykh izdeliy Zaporozhskogo ogneuporogo zavoda (Department of Chrome Magnesite Products of the Zaporozhskiy Plant for Refractory **Materials**). Yu. P. Sidorenko, B. L. Gorshkova, and P. I. Pazukha took part in the research (Ref. 2). Regular bricks were piled up as in figure 1 and vault bricks as in figure 2. The results of sorting of these tests are shown in table 2.

Conclusion: it is possible to produce unfinished dinas bricks of sufficient strength; the greater strength is obtained by pressing at a pressure ≥ 350 kg/sq.cm or by a combined addition of sulphite-alcohol vinasse and cast intensifier KB at usual pressure up to a specific weight of 2,25 - 2,25 g/cb.cm: unfinished dinas bricks of thus increased strength can be piled on the kiln buggy immediately away from the press: there is a possibility of drying the unfinished dinas bricks in the pre-heating zone of the tunnel kiln, which would make a special

SOV/151-58-11-7/9

The Problem of Placing Unfinished Dinas Bricks on the Buggies of the Tunnel
Kiin

drying unnecessary.

There are 2 figures, 5 tables, and 4 references, 2 of which
are Soviet.

ASSOCIATION: Ukrainskiy nauchno-issledovatel'skiy institut ogneuporov
(Ukrainian Scientific Research Institute of Refractory Materials)

Card 4 of 5

15(2)

AUTHORS:

Margulis, O. M., Romanchenko, K. G., SOV/131-59-4-4/16
Rutman, D. S., Vinogradova, L. V.

TITLE:

The Terminal Pieces of Immersion Thermocouples (Nakonechniki
dlya termopar pogruzheniya)

PERIODICAL:

Ogneupory, 1959, Nr 4, pp 157-161 (USSR)

ABSTRACT:

Immersion thermocouples with terminal pieces of quartz can be used only one time up to a temperature of 1600°. The platinum-platinum-rhodium thermocouples are further rapidly worn out. In the Podol'sk plant of refractories experiments with terminal pieces of technical alumina are carried out, the technology devised by UNIIO serving as a basis (Fig 1). A set of 500 terminal pieces was tested in the works "Elektrostal'" by representatives of manufacturers and consumers, of the Ukrainian and All-Union Institutes of Refractories, and the Tsentral'naya laboratoriya avtomatiki Ministerstva stroitel'stva RSFSR (Central Laboratory of Automation of the Ministry of Building of the RSFSR). The laboratory of the Podol'sk works performed petrographical investigations in which N. V. Gul'ko assisted (Ref 1, Figs 2 and 3). The influence of burning and of an addition of 1% TiO₂ was investigated. The results are

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The Terminal Pieces of Immersion Thermocouples

SOV/131-59-4-4/16

given in the table and the typical cuts in figure 4. Conclusions: The increased thermal stability of terminal pieces of technical alumina is guaranteed by the presence of two corundum crystal types: fine isometric and coarse prismatic.

Further the technology of production of this corundum crystallization is given and recommended to all works producing refractories in order to supply metallurgical plants with suitable terminal pieces for thermocouples. There are 4 figures, 1 table, and 5 references, 4 of which are Soviet.

ASSOCIATION:

Ukrainskiy nauchno-issledovatel'skiy institut ogneuporov
(Ukrainian Scientific Research Institute of Refractories),
Podol'skiy zavod ogneupornykh izdeliy (Podol'skiy Works for
Refractories)

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15(2)

S/131/60/000/03/009/013
B015/B005AUTHORS: Margulis, O. M.,
Romanchenko, K. G., Stovbur, A. V.

TITLE: Dense Products of Magnesium Oxide With Increased Thermal Stability

PERIODICAL: Ogneupory, 1960, Nr 3, pp 132-137 (USSR)

ABSTRACT: In this paper the authors describe an economic procedure for the manufacture of fully sintered products of magnesium oxide with admixtures and at practically attainable temperatures. Table 1 indicates the chemical composition of the initial raw material and of the admixtures. Tables 2-4 show the characteristics of the magnesium-oxide samples with admixtures burnt at 1750°. The preparation of raw materials is thoroughly described, and the method of Grebenyuk (UNIIO) is referred to. In conclusion, the authors state that a procedure was worked out for the manufacture of plates with a porosity of 1-3% made of magnesium oxide with spinel linkage. They offer increased thermal stability and considerable durability at high temperatures. The peculiarity of this procedure lies in the use of magnesium oxide burnt at high temperatures and finely

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Dense Products of Magnesium Oxide With Increased
Thermal Stability

S/151/000/03/009/013
B015/B005

ground, in the addition of highly disperse $\alpha\text{-Al}_2\text{O}_3$, the
pressing of unfinished pieces from "pseudograngular masses",
and the two-stage burning at 1450 and 1750° in capsules.
There are 4 tables and 11 references, 8 of which are Soviet.

ASSOCIATION: Ukrainskiy nauchno-issledovatel'skiy institut ogneuporov
(Ukrainian Scientific Research Institute of Refractories)

Card 2/2

MARGULIS, O.M.; ROMANCHENKO, K.G.; STOVBUR, A.V.; BASALOVA, G.K.

Immersion thermocouple tips made of zirconium dioxide with
a high thermal stability. Ogneupory 27 no.12:552-555
'62. (MIRA 15:12)

1. Ukrainskiy nauchno-issledovatel'skiy institut
ogneuporov.

(Thermocouples)

S/131/62/000/012/002/004
B117/B186

AUTHORS: Margulis, O. M., Romanchenko, K. G., Stovbur, A. V.,
Basalova, G. K.

TITLE: Tips for immersion type thermocouples made from zirconium
dioxide of increased resistance to heat

PERIODICAL: Ogneupory, no. 12, 1962, 552 - 554

TEXT: Basing on previous experience (O. M. Margulis et al., Stal', 1957,
no. 8; Ogneupory, 1959, no. 4; Sbornik rabot UNIIO, 1960, no. 3) tips for
thermocouples were made from molten zirconium dioxide (mixture of cubic
and monoclinic modifications) by ceramic casting and freeze-drying. Dross
with pH = 1-2, 20% moisture, and 8 - 10 poise viscosity was used for cast-
ing. Dried dross with paraffin and oleic acid was used for freeze-drying.
The tips produced by the two methods and annealed in periodic furnaces with
petroleum heating at 1750°C had a porosity of 1 - 30%. Without protective
coating they withstood 2 - 6 immersions in molten chromium at 2000 - 2040°C.
Tests carried out under operating conditions in induction and steel arc
furnaces showed that tips produced by the two methods withstood 2 - 3 immer-
sions in molten metal and allowed of making temperature measurements at

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Tips for immersion type...

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B117/B186

1700 - 1750°C. Their thermal inertia of 15 sec corresponded to that of quartz glass (12 - 20 sec). There is 1 table.

ASSOCIATION: Ukrainskiy nauchno-issledovatel'skiy institut ogneuporov
(Ukrainian Scientific Research Institute of Refractories)

Card 2/2

MARGULIS, O.M.; ROMANCHENKO, K.G.; STOVBUR, A.V.

Solid magnesium oxide products with an increased thermal stability. Ogneupory 25 no. 3:132-137 '60. (MIRA 1310)

1. Ukrainskiy nauchno-issledovatel'skiy institut ogneuporov.
(Magnesium oxide) (Refractory materials)

ROMANCHENKO, K.G.; KAYNARSKIY, I.S.

Interaction of calcium monoxide with silicon dioxide during the
blending of Dinas substances. Ogneupory 26 no.3:143-148 '61.
(MIRA 14:4)

1. Ukrainskiy nauchno-issledovatel'skiy institut ogneuporov.
(Firebrick)

ROMAN. ENKO, K.G.; KAINA-SKIY, I.S.

Strength of green Dinas bricks and its determinative factors.
Ogneupory 26 no.1:31-41 '61. (MIA 1/2)

1. Ukrainskiy nauchno-issledovatel'skiy institut ogneuporov.
(Firebrick--Testing)

S/133/60/000/011/009/023
A054/A029

AUTHORS: Amonenko, V.M., Romanchenko, K.G., Tron', A.S.

TITLE: Reaction Between Heat-Resisting Alloys and Refractory Oxides
at High Temperatures in Vacuum

PERIODICAL: Stal', 1960, No. 11, pp. 1002-1004

TEXT: Many heat-resisting alloys contain elements which enter easily into reaction with the oxides of the refractory crucible during vacuum casting at high temperatures. Consequently, the alloys are contaminated with oxygen and with the material of the crucible which affects their mechanical properties. In order to investigate this phenomenon and to establish such a composition of the crucible that has least effect on the alloys, tests were undertaken with crucibles containing ZrO₂, BeO, MgO, Al₂O₃ and (Al₂O₃ + 1% TiO₂) and nickel-base heat-resisting alloys of the 3Н 617 (EI 617)-type at various temperatures and with various holding times in vacuum. The tests were carried out in resistance furnaces having molybdenum heaters, the crucibles were made from chemically pure oxides, having a porosity between 0-2% and which were stabilized with 5% MgO or CaO. In the tests the effect of casting temperatures, of the duration of the vacuum treatment and of the crucible material on the

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A054/A029

Reaction Between Heat-Resisting Alloys and Refractory Oxides at High Temperatures in Vacuum ✓

gas content of the alloy were investigated while the quantity of non-metallic inclusions in the alloy was examined by petrographic analysis. It was found that the refractory materials of crucibles made from Al_2O_3 , ZrO_2 , MgO and BeO entered into reaction with the C of the casting. Al , Zr and Be reduced from the oxides was dissolved in the metal while carbon oxide and magnesium were eliminated in the gas-phase. The reduction process was accelerated by the rising temperature. The minimum reduction rate was observed at 1,450-1,500°C and the minimum amount of reduction products were found in the alloy when the vacuum process did not last longer than 20-30 minutes. The lowest oxygen content was found in alloys cast in ZrO_2 and BeO crucibles while the reduction process was the most intensive in MgO crucibles. When casting in Al_2O_3 -containing crucibles, an exchange reaction took place between metal and refractory material, during which chrome and titanium were oxidized and Al_2O_3 was reduced to Al_2O , followed by its decomposition into Al_2O_x and Al . Petrographically it was established that Cr_2O_3 was present in the refractory substance, indicating a reaction between the crucible and the chrome of the alloy. The

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Reaction Between Heat-Resisting Alloys and Refractory Oxides at High Temperatures in Vacuum

tests on inclusions and the microscopic investigations showed spinelides of $Mg_2(Al, Cr)_2O_4$ in MgO crucibles, which were formed as a result of the reaction between the alloying elements and magnesium oxide. The higher the casting temperature, the longer the holding time of the metal and the lower the remaining pressure in the chamber, the more complete was the elimination of N and H from the alloy. The refractory materials were arranged according to their degree of resistance against reaction with the alloy in the following series: $MgO < Al_2O_3$; $(Al_2O_3 + 1\% TiO_2) < BeO < ZrO_2$. There are 5 figures and 8 references: 4 Soviet, 2 English, 1 German, 1 French.

ASSOCIATION: Fiziko-tehnicheskiy institut AN UkrSSR (Physical-Technical Institute AS UkrSSR), Ukrainskiy nauchno-issledovatel'skiy institut ogneuporov (Ukrainian Scientific-Research Institute of Refractory Materials)

Card 3/3

AMONENKO, V.M.; ROMANCHENKO, K.G.; TRON', A.S.

Interaction of heat-resistant alloys and refractory oxides at
high temperatures in vacuum. Stal' 20 no.11:1002-1004 ■ '60.
(MIRA 13:10)

1. Fiziko-tehnicheskiy institut AN USSR i Ukrainskiy nauchno-
issledovatel'skiy institut ogneuporov.
(Heat-resistant alloys—Metallurgy)
(Vacuum metallurgy)

POLYANSKIY, F.Ya., prof.; SHEMYAKIN, I.N., prof.; GLUKHAREV, L.I.,
dots.; ROMANCHENKO, L.N., kand. ekon. nauk; KAYYE, V.A.,
kand. ekon. nauk; MOTUS, P.P., kand. ekon. nauk; TYUSHEV,
V.A., kand. ekon. nauk; ROMANCHENKO, L.N., kand. ekon. nauk;
AVDAKOVA, Yu.K., kand. ekon. nauk, dots., red.; SPERANSKAYA, L.,
red.; VOSKRESENSKAYA, T., red.; NEZNANOV, V., mladshiy red.;
NOGINA, N., tekhn. red.

[Economic history of capitalist countries]Ekonomicheskaya isto-
riia kapitalisticheskikh stran; kurs lektsii. Moskva, Sotsekgiz,
1962. 634 p. (MIRA 16:2)

(Economic history)

POLYANSKIY, F.Ya., prof.; SHEMYAKIN, I.N., prof.; GLUKHAREV, L.I.,
dots.; ROMANCHENKO, L.N., kand. ekon. nauk; KAYYE, V.A.,
kand. ekon. nauk; MOTUS, P.P., kand. ekon. nauk; TYUSHEV,
V.A., kand. ekon. nauk; ROMANCHENKO, L.N., kand. ekon. nauk;
AVDAKOVA, Yu.K., kand. ekon. nauk, dots., red.; SPERANSKAYA, L.,
red.; VOSKRESENSKAYA, T., red.; NEZNANOV, V., mladshiy red.;
NOGINA, N., tekhn. red.

[Economic history of capitalist countries]Ekonomicheskaya istoriya kapitalisticheskikh stran; kurs lektsii. Moskva, Sotsekgiz, 1962. 634 p.

(MIRA 16:2)

(Economic history)

ROMANCHENKO, I.T., kand. ekon.nauk; AVDAKOV, Yu.K., dots., red.;
MINDAROV, A.I., dots., red.

[Economy of capitalist Germany during the general crises
of capitalism; subject matter for a course on the "Economic
history of capitalist countries" for the economics faculties
of the Institute] Ekonomika kapitalisticheskoi Germanii v pe-
riodi obshchego krisisa kapitalizma; uchebnyi material po
kursu "Ekonomicheskaya istoriya kapitalisticheskikh stran"
dlja ekonomicheskikh fakul'tetov instituta. Moskva, Zaoch-
nyi inst. sovetskoi torgovli, 1963. 49 p. (MIRA 18:4)

ROMANCHENKO, M.S.

Constructive activity of the workers is growing. Metallurg
5 no. 12:38 D '60. (MIA 13:11)

1. Vneshtatnyy instruktor Oblsovprofa.
(Pipe mills)

25675

S/122/60/000/005/012/017
A161/A130

1.W000

AUTHORS: Yanovskiy, I. I., Engineer; Tenenbaum, M. M., Candidate of Technical Sciences; Romanenko, N. K., Engineer

TITLE: Relieving internal stresses in soldering carbide tips on tools

PERIODICAL: Vestnik mashinostroyeniya, no. 5, 1960, 52-57

TEXT: Dimension changes from thermal expansion of metal are analyzed and a formula and a diagram are deduced for determining the proper linear deformation coefficient (β) at which stresses in soldered joint would be zero in given case, i.e., at a definite solder solidification point, steel composition and austenite transformation temperature. The formula is

$$\beta' = \frac{T_{sol}(\alpha_{aust} - \alpha) + T_{tr aust}(\alpha_{aust} - \alpha_{dec}) + 20^\circ(\alpha_{dec} - \alpha_T)}{T_{sol}} \quad (4)$$

where T_{sol} is the solidification point of the solder; α_{aust} - the linear expansion factor of austenite; α_{dec} - the linear expansion factor of austenite decomposition products; $T_{tr aust}$ - steel transformation temperature; α_T - the linear expansion factor of hard alloy of the tool tip; β' designates the theoretical ideal value of β . The approximate relation of β' and relative increase at austenite decomposition is $\delta \approx 3\beta'$, and the relative expansion is determined by

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